# BTEC Assignment Brief

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| **Qualification** | Pearson BTEC International Level 3 Diploma in Agriculture<br>Pearson BTEC International Level 3 Extended Diploma in Agriculture |
| **Unit number and title** | Unit 16: Livestock Nutrition |
| **Learning aim(s)** | **C** Plan livestock diets to meet nutritional requirements |
| **Assignment title** | **Planning diets for livestock** |
| **Assessor** | |
| **Issue date** | |
| **Hand in deadline** | |

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| **Vocational Scenario or Context** | You work on a farm that keeps several types of livestock.<br>The Farm Manager has asked you to apply for the position of assistant manager. As part of the application process, you need to demonstrate your knowledge and understanding of livestock feed, and your ability to plan suitable diets for the livestock species you will manage. |
| **Task 1** | The Farm Manager has asked you to put together a portfolio of evidence to show your understanding of livestock feed and planning, to meet the demands of **two** livestock species.<br>You should carry out research, and use it to develop your portfolio. You may include annotated relevant photographs and/or edited video recordings if this is the most suitable form of evidence.<br>Your portfolio must include but is not limited to:<br>• evidence of you considering the suitability of different types of feeds<br>• evidence of your understanding of the methods used to analyse livestock feeds<br>• evidence of your understanding of feed labelling, nutritional terminology and ingredients<br>• diet planning for two species of livestock<br>• a written report on diet planning decisions.<br>Your written report should provide a rationale for the diets you have planned, and include any calculations you have made. It should show that you have considered the nutritional demands of each livestock species and the nutritional contents of available feeds.<br>You should discuss any practical considerations involved in planning, preparing and providing feeds. This may be in the written report or as a separate part of your portfolio. |

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| **Checklist of evidence required** | Portfolio of evidence to include: diet planning documents, witness statements and/or assessor observations, written report, illustrations or photographs. |

| **Criteria covered by this task:** | |
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| Unit/Criteria reference | To achieve the criteria you must show that you are able to: |
| C.D3 | Plan complex diet formulations for different livestock species to meet nutritional, practical and production demands. |
| C.M4 | Plan complex diet formulations for livestock species. |
| C.M3 | Analyse the nutritional content of livestock feeds. |
| C.P6 | Plan simple diet formulations for livestock species. |
| C. P5 | Explain the nutritional content of livestock feeds. |

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| **Sources of information to support you with this Assignment** | **Books**<br>Dryden, G (2008) *Animal Nutrition Science,* CABI Publishing, ISBN13 978 1845934125<br>Jurgens, M. H., (2018) *Animal Feeding and Nutrition*, Kendall/Hunt Publishing Company, ISBN13 978 0757591136<br>Phillips, C.J.C (2016) *Nutrition and the Welfare of Farm Animals,* Springer, ISBN13: 978 3319273549<br>Underwood, E (1999) *The Mineral Nutrition of Livestock*, CABI Publishing, ISBN13 978 0851991283<br>**Journals/Magazines**<br>*Journal of Applied Animal Nutrition*<br>*Animal Nutrition*<br>*Beef Farmer*<br>*Dairy Farmer*<br>*Pig Progress*<br>*Poultry World*<br>*Farmers Weekly*<br>**Websites**<br>extension.msstate.edu/agriculture/livestock<br>pighealth.com |